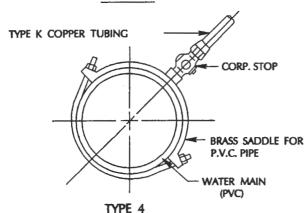


CORP. STOP	TYPE 1 & 2	TYPE 3 & 4
FORD	Ff100G	F1000G
MUELLER	H15024	H15006



#### NOTES:

- 1. TYPE 1-INSTALL ANODE AS SHOWN IN STANDARD DETAIL W-15.
- 2. TYPES 1 & 2-WRAP CORPORATION STOP AND 5' OF COPPER TUBING WITH 10 MIL PVC TAPE (1/2 LAPPED).
- 3. TYPE 1-IF WATER MAIN IS COATED, REPLACE COATING ON MAIN AND COAT WELD-ON SERVICE SADDLE AND INSUL-ATING BUSHING WITH 1/4" MIN. COATING OF SAME MATERIAL (OR 10 MIL PVC TAPE)
- 4. TYPE 2- IF MAIN IS POLYWRAPPED, REPAIR AND EXTEND POLYWRAP TO COVER CORPORATION STOP.
- 5. FOR WATER METER INSTALLATION SEE STANDARD DETAIL W-2.
- 6. ALL BRASS CORPS FOR BRASS SADDLES SHALL HAVE CC THREADS (SADDLES AND CORPS)

	SE	RVICE CONNEC	TION SCHEDUL	.E	
SERVICE		WATER MAIN	MATERIAL		
SIZE	STEEL	D.I.P.	A.C.P.	R.P.M.	P.V.C.
3/4"	TYPE 1	TYPE 2	TYPE 3	TYPE 3	TYPE 4
1"	п		•	"	н
1- 1/2"	н	•	4	"	"
2*	0 '	n		13	N

APPROVED BY

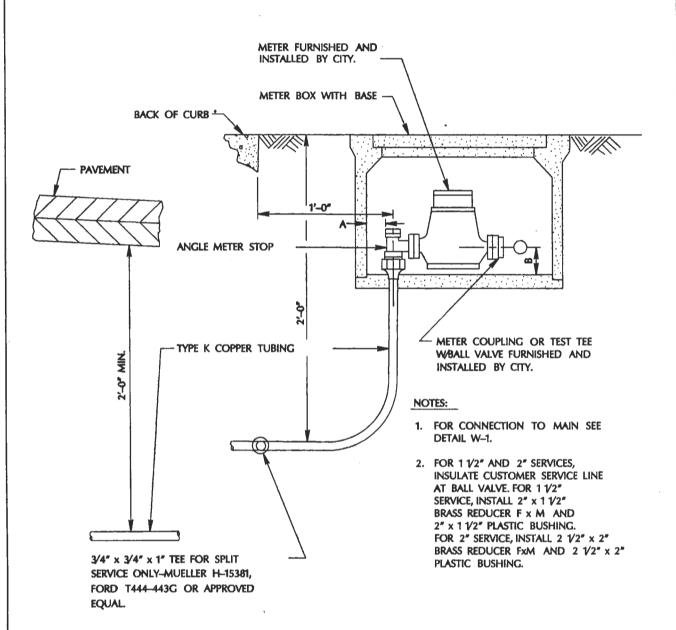
well

CONNECTION TYPES FOR 3/4" - 2" SERVICE TAPS

DEPARTMENT OF PUBLIC WORKS

DRAWING NO.

**W**\_1



METER	METER BOX	ANGLE METER STOP		BALL \	/ALVE	CRITICAL DIMENSIONS	
SIZE	CHRISTY	FORD	MUELLER	FORD	MUELLER	٨	В
5/8" x 3/4"	B12, B125, B30SL	KV43-332WG	H-14258	NOT REQUIRED	NOT REQUIRED	1" MIN.	2 3/4"
1"	B12, B125, B30SL	KV43-342WG	H-14258	NOT REQUIRED	NOT REQUIRED	1 1/2" MIN.	3"
1 1/2" D	B44,B44E2, B44X4, B44SL	FV43-666WG	H-14277	BF13-666	B20283	1 1/2" MIN.	3 1/4"
2" D	B44,B44E2, B44X4, B44SL	FV43-777WG	H-14277	BF11-777	B20283	2" MIN.	3 3/4"
2" T	B44,B44E2, B44X4, B44SL	FV43-777WG	H-14277	BF11-777	B20283	2" MIN.	2 3/4"

APPROVED BY

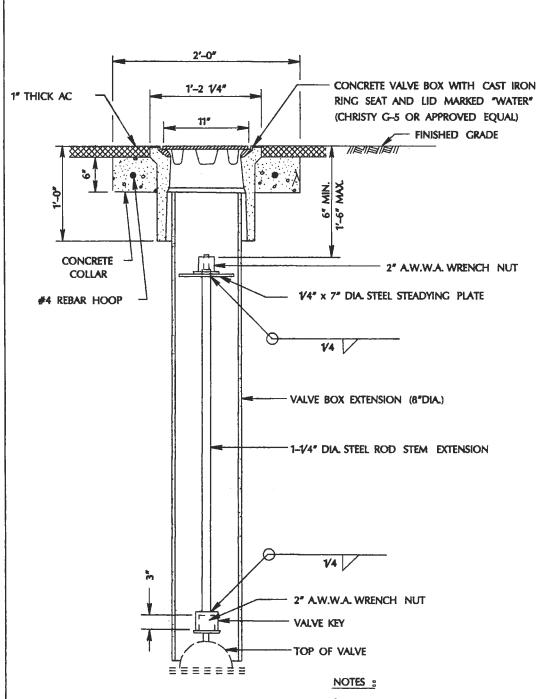
wsk

**DATE** 4-2-9ン WATER METER SERVICES 3/4" -2"

DEPARTMENT OF PUBLIC WORKS



DRAWING NO.



- MILL TOP OF STEM EXTENSION TO ACCEPT A.W.W.A. WRENCH NUT AND PEEN TOP OF EXTENSION TO SECURE NUT.
- STEM EXTENSION REQUIRED ONLY WHEN THE DEPTH TO TOP OF VALVE OPERATOR NUT IS GREATER THAN 3'-0".
- 3. VALVE BOX EXTENSION MAY BE 8" PVC CLASS 150 PIPE MATERIAL.

DATE

Barbara and the

# VALVE BOX INSTALLATION

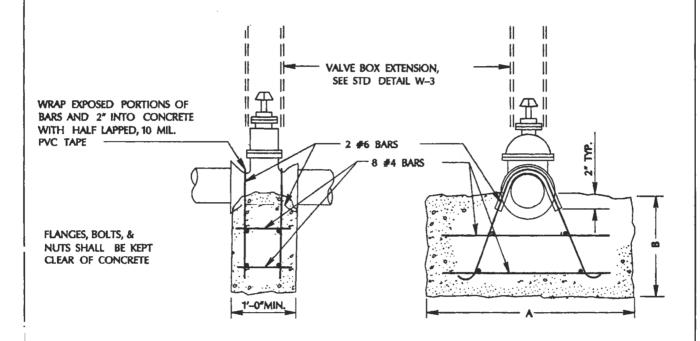
ST SAN TO SAN TO

DRAWING NO.

W-3

# NOTE:

ENCASE ALL BURIED METALLIC SURFACES WITH POLYETHYLENE WRAP (8 MIL. MIN.) AS SPECIFIED IN A.W.W.A. C105.



	ANCHOR E	ANCHOR BLOCK DIMENSIONS (FT.)					
SIZE OF GATE VALVE	A		8				
		200 PSI TEST	250 PSI TEST				
3"	1.5	1.5	2.0				
4*	2.0	1.5	2.0				
6"	3.0	1.5	2.0				
8"	3.0	1.5	2.0				
10"	3.0	2.0	2.5				
12"	3.5	2.0	2.5				

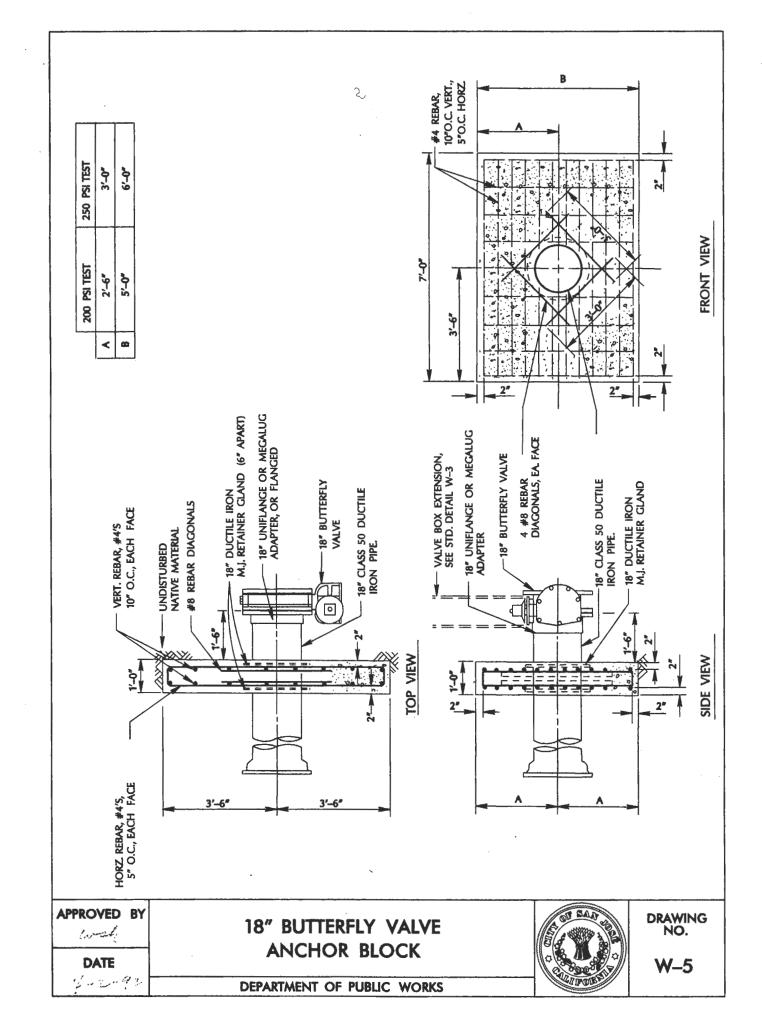
APPROVED BY

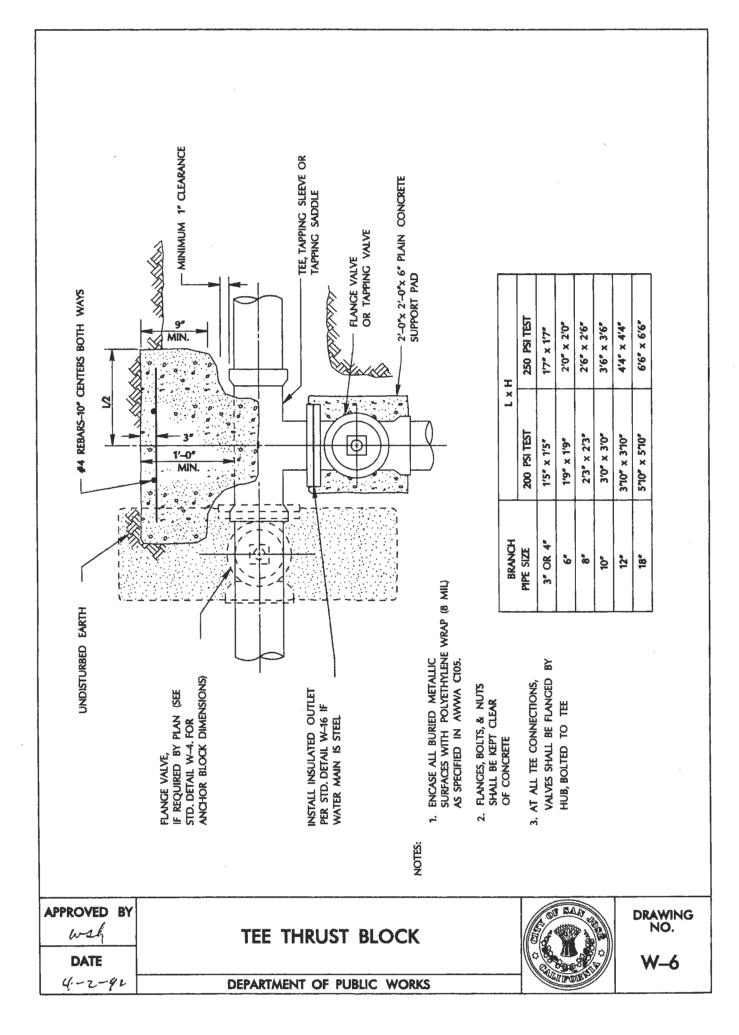
DATE

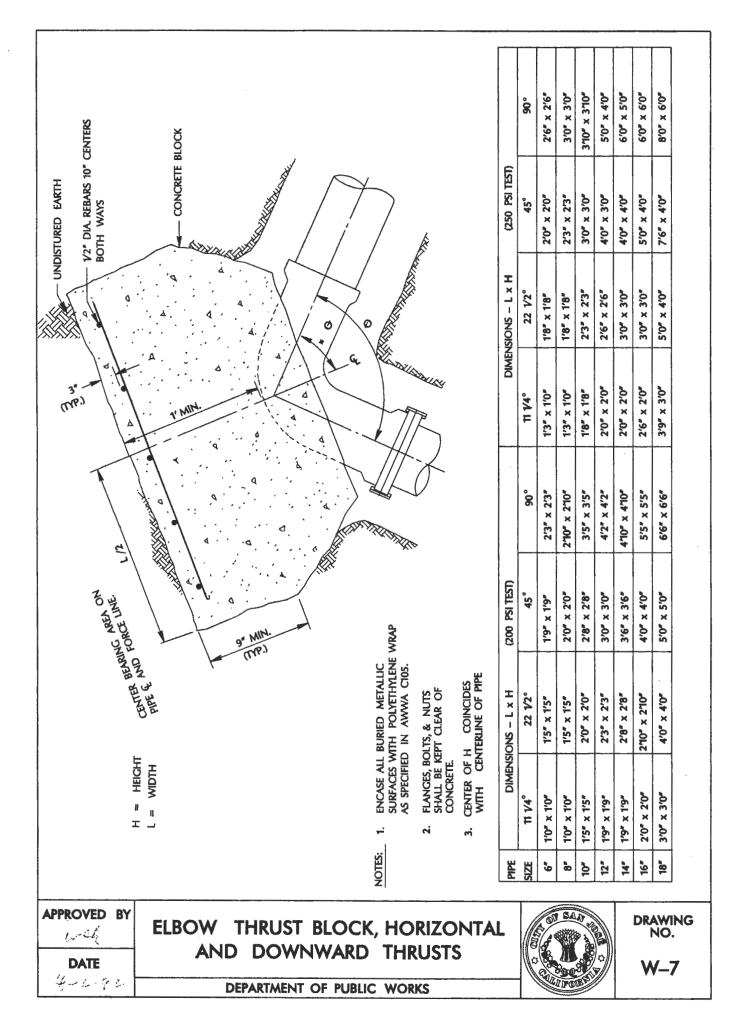
**VALVE ANCHOR BLOCKS** 

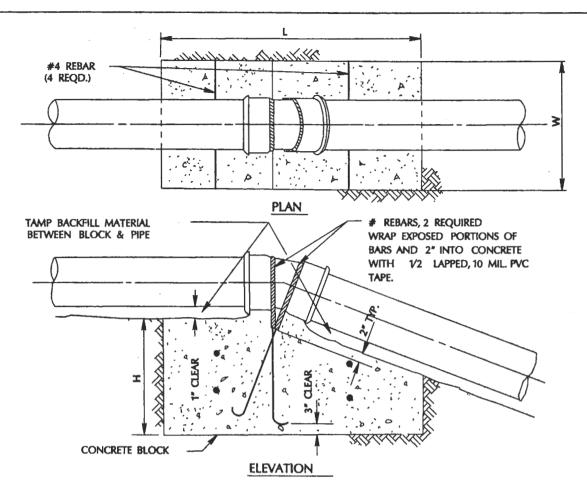
DRAWING NO.

W-4









NOTES: 1.

- ENCASE ALL BURIED METALLIC SURFACES WITH POLYETHYLENE WRAP AS SPECIFIED IN AWWA C105.
- 2. FLANGES, NUTS & BOLTS SHALL BE CLEAR OF CONCRETE.

**DIMENSIONS** (200 PSI TEST)

PIPE	11 1/	11 1/4° BEND			22 1/2° BEND			45° BEND		
SIZE	L	w	Н	Ł	W	н	L	w	н	
6"	2′0″	2′0″	1′0″	2′0″	2′0″	2′0″	2′0″	2′0″	2′0″	
8"	2′0″	2′0″	1′0″	2'0"	3′0″	2′0″	2′0″	4'0"	2′0″	
10"	2′0″	3′0″	2′0″	2'0"	4'0"	2′0″	2′0″	4'0"	3′0″	
12"	2′0″	3′0″	2′0″	2′0″	6'0"	2′0″	2'0"	6′6″	3′0″	
18"	3′0″	3′0″	3′0″	3′0″	6′0″	3′0″	3′0″	5′0″	5′0″	

DIMENSIONS (250 PSI TEST)

PIPE	11 1/4° BEND		2	22 1/2° BEND			45° BEND		
SIZE	Ł	w	Н	L	W	Н	L	w	Н
6"	2′0″	2'6"	1'0"	2′0″	2′6″	2′0″	2′0″	3′0″	2'0"
8"	2′0″	2'6"	1′0″	2′0″	3′9″	2′0″	2′0″	5′0″	2′0″
10"	2'0"	2'6"	2′0″	2′0″	5′0″	2′0″	2′0″	5′0″	3′0″
12"	2'0"	3′9″	2'0"	2′0″	6′0″	2′6″	2′0″	6'0"	4'0"
18"	3′0″	3′9″	3′0″	3′0″	5′6″	4'0"	3′0″	7'0"	5′0″

APPROVED BY

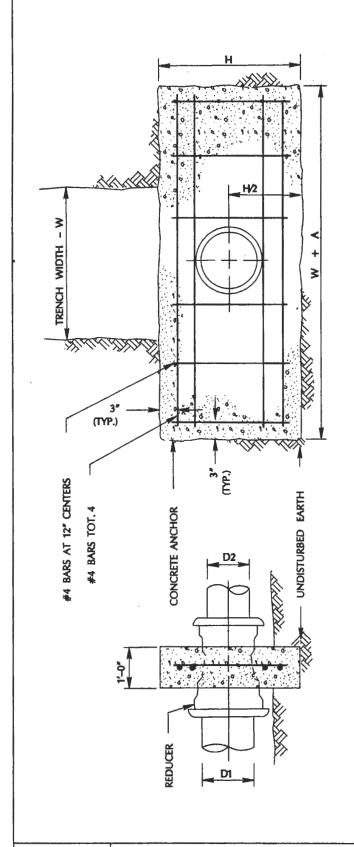
DATE

4-2-92

ELBOW ANCHOR BLOCK, **UPWARD THRUST** 

DEPARTMENT OF PUBLIC WORKS

DRAWING NO.



	EST	٧	5.0"	2,0,	2,6"	3'2"	2,0,	2,10"	1'4"
<b>EDUCERS</b>	200 PSI TEST	н	3'0"	1'4"	2,0,	2,0,	1,0,	1,0,	1,0"
ANCHORS FOR REDUCERS	EST	٧	5,0"	2,0,	2,6"	3,0*	2,0"	3,0,	1,4°
	250 PSI TEST	I	3,6"	1,8″	2,6"	2,6"	1'3"	1/3"	1.4"
	REDUCER SIZE	O1 x D2	18" x 12"	12" × 10"	12" x 8"	12" × 6"	8" × 6"	8" X 4"	6" x 4"

ENCASE ALL BURIED
METALLIC SURFACES WITH
POLYETHYLENE WRAP AS
SPECIFIED IN AWWA C105. NOTES:

REDUCER ANCHOR IS REQUIRED ONLY WHEN LARGER CONNECTING JOINT IS OTHER THAN FLANGED. 'n

APPROVED BY

DATE

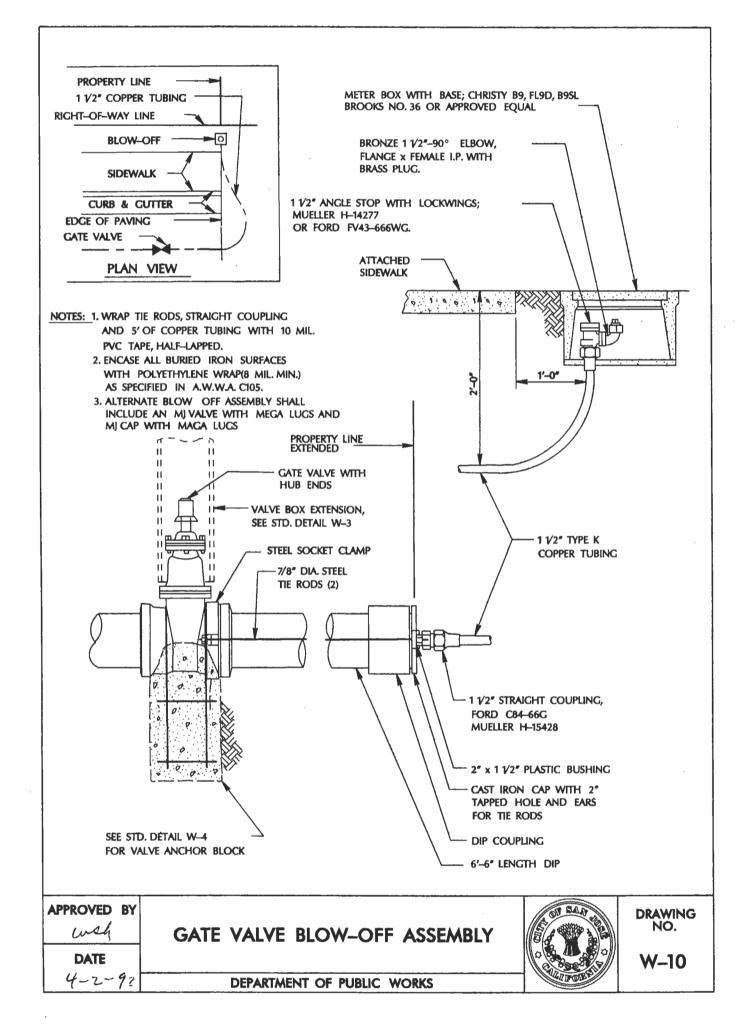
4-2-9

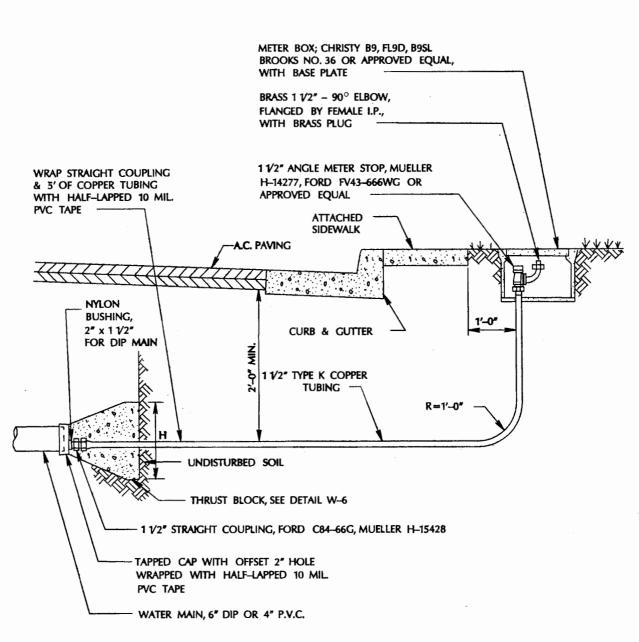
REDUCER ANCHOR BLOCK

DEPARTMENT OF PUBLIC WORKS



DRAWING NO.





#### **DIMENSIONS**

PIPE	200 PS	I TEST	250 PSI TEST		
SIZE	W	н	w	н	
4"	2′-0″	1'-0"	2′-6″	1′-0″	
6"	3′-0″	1′-0″	3'-6"	1′-0″	
8"	2′-6″	2′-0″	3′-0″	2'-0"	
10"	3′-0″	3'-0"	3'-6"	3'-0"	
12"	4′-0″	3′-0″	5′-0″	3′-0″	
14"	4′-0″	4′-0″	5′-0″	4'-0"	
18"	6'-6" .	4'-0"	8'-0"	4'-0"	

APPROVED BY

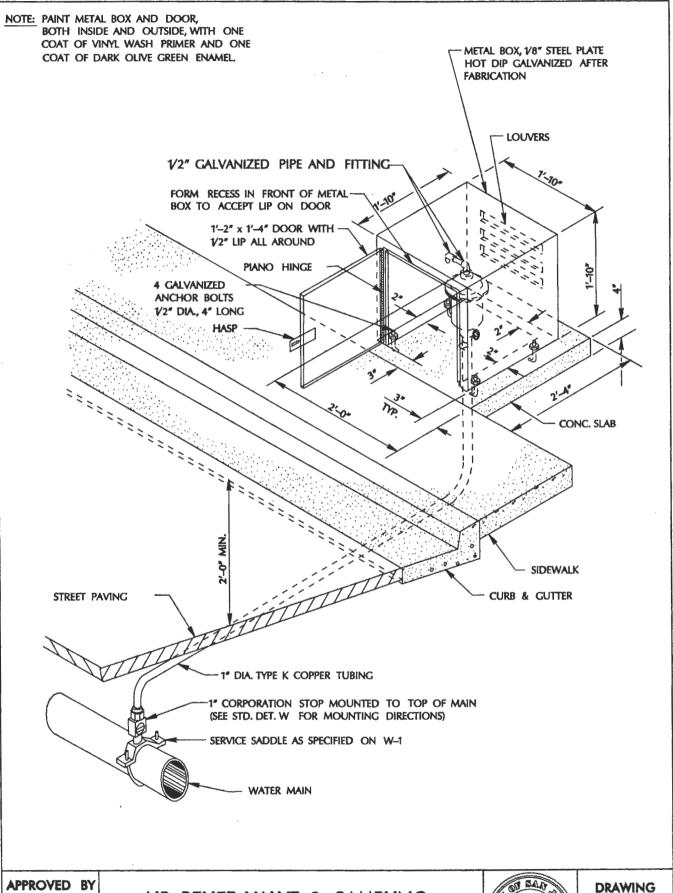
DATE

CUL-DE-SAC BLOW-OFF ASSEMBLY



DRAWING NO.

W-11



APPROVED BY

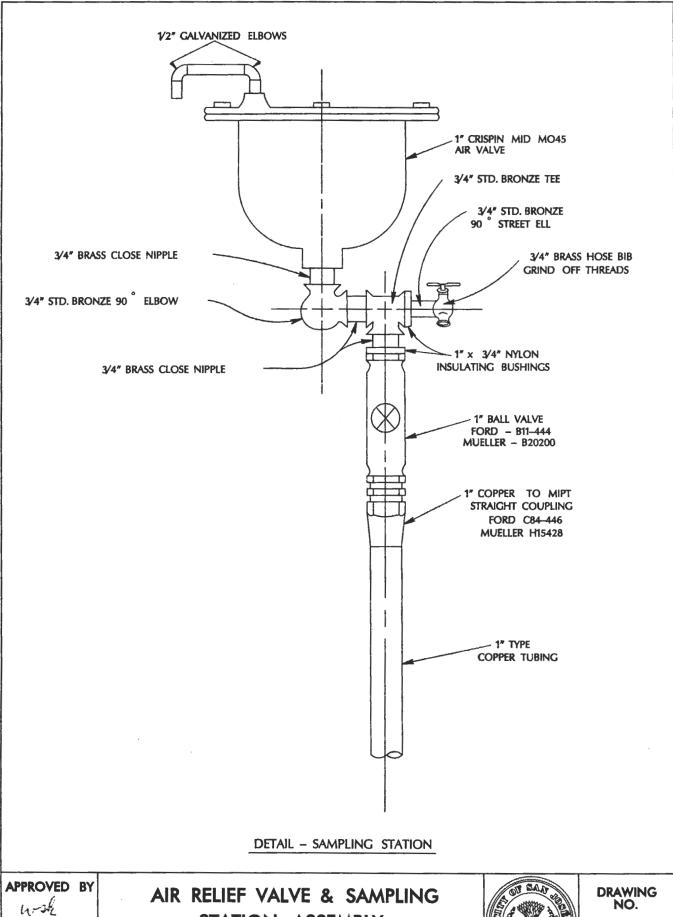
DATE

AIR RELIEF VALVE & SAMPLING STATION ASSEMBLY

DEPARTMENT OF PUBLIC WORKS



DRAWING NO.



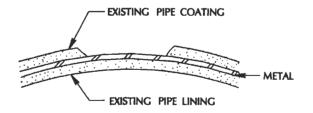
AIR RELIEF VALVE & SAMPLING STATION ASSEMBLY

DEPARTMENT OF PUBLIC WORKS

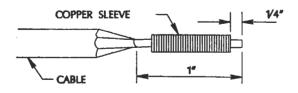


DRAWING NO.

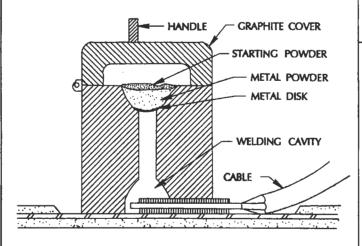
W-12a



STEP 1



STEP 2



STEP 3



STEP 4

### WELDING INSTRUCTIONS

## STEP 1

REMOVE EXISTING COATING AND CLEAN PIPE TO WHITE METAL WITH FILE GRINDER OR METAL RASP.

#### STEP 2

REMOVE INSULATION, SLIP ON COPPER SLEEVE AND CRIMP.

#### STEP 3

INSTALL CABLE AS SHOWN.
PLACE POWDER IN MOLD AND CLOSE COVER.
IGNITE WITH FLINT GUN AND HOLD WELD
MOLD IN POSITION FOR 10 SECONDS.

#### STEP 4

REMOVE SLAG AND TEST WELD WITH SHARP HAMMER BLOW, REPLACE COATING ON MAIN & COAT WELD AND BARE COPPER WITH 1/4" MIN. COATING OF SAME MATERIAL OR WITH 10 MIL PVC TAPE, HALF— LAPPED.

## WELDING SPECIFICATIONS-

# **CADWELD**

CONDUCTOR- #10 OR #12 SOLID	STEEL OR DUCTILE IRON	CAST IRON
#10 OK #12 3000	DOCTILE INCH	_ CAST INCH
WELDER	CAM-108	CAHBA-1G
SLEEVE	CA-26180	CA-26180
CARTRIDGE	CA15F33	CA25-XF19
CONDUCTOR- #8 STRANDED	STEEL OR DUCTILE IRON	CAST IRON
WELDER	CAM-109S	CAHBA-1L
SLEEVE	CAS-421	CAS-421
CARTRIDGE	CA15F33	CA45-X519

APPROVED BY

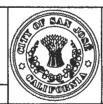
well

DATE

4-2-92

CABLE TO PIPE EXOTHERMIC WELD

DEPARTMENT OF PUBLIC WORKS

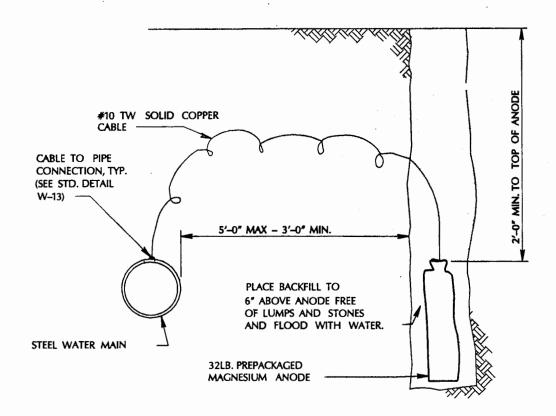


DRAWING NO.

W - 13

NOTES: 1. ANODE TO BE INSTALLED WITH EVERY SERVICE CONNECTION (STD. DETAIL W-1) ON STEEL MAIN NOT UNDER CATHODIC PROTECTION (SEE ENGINEER).

- 2. LEAVE ENOUGH SLACK IN CABLE TO PREVENT DAMAGE DURING BACKFILL OPERATIONS.
- 3. ANODE MAY BE INSTALLED HORIZONTALLY IF LOCATED BELOW THE SPRINGLINE OF THE PIPE.



APPROVED BY

beret

MAGNESIUM ANODE INSTALLATION

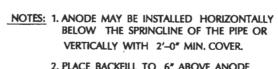
ST SAAT SO

DRAWING NO.

W-14

DATE

4-292

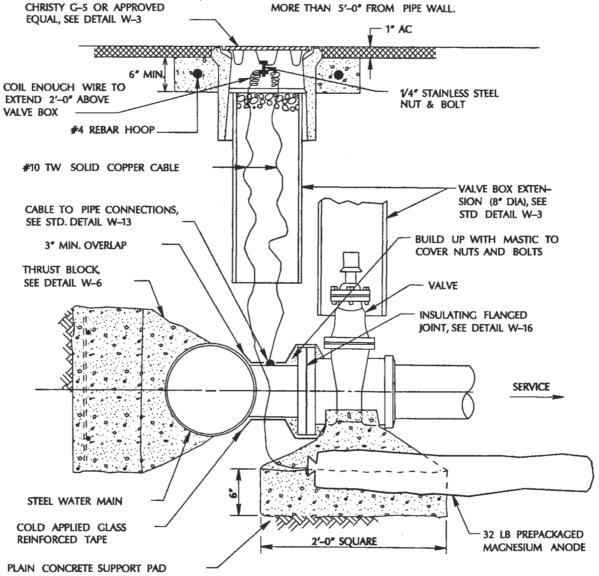


2. PLACE BACKFILL TO 6" ABOVE ANODE FREE OF LUMPS OR STONES AND FLOOD WITH WATER.

3. LEAVE ENOUGH SLACK IN CABLE TO PRE-VENT DAMAGE DURING BACKFILL OPERATIONS.

4. ENCASE ALL METAL PIPE WITH MIN. 8 MIL POLYETHYLENE WRAP PER AWWA C105.

CONCRETE VALVE BOX WITH 5. INSTALL ANODE NOT LESS THAN 3'-0" NOR CAST IRON LID MARKED "ANODE", MORE THAN 5'-0" FROM PIPE WALL.



APPROVED BY

11/2/

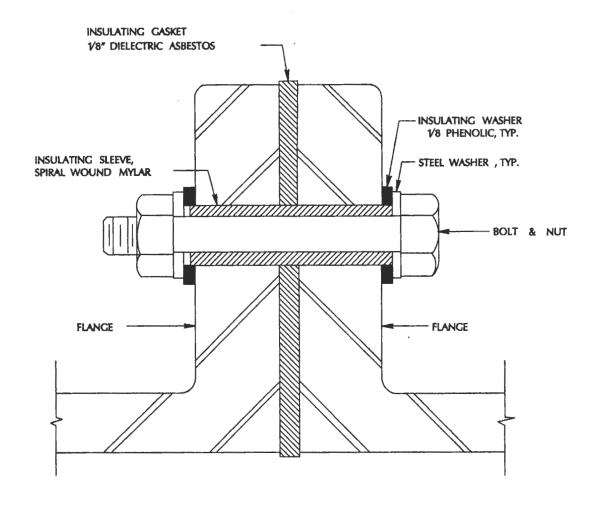
DATE 16-2-72

INSULATED OUTLET



**DRAWING** NO.

W<sub>-</sub>15



APPROVED BY

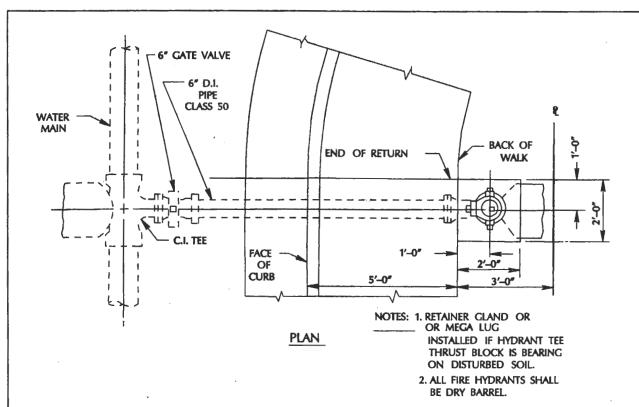
DATE

4-16 92

INSULATING FLANGED JOINT

**DEPARTMENT OF PUBLIC WORKS** 

DRAWING NO.



6'-0" 6'-0" (NOMINAL) **FINISHED** SURFACE OF **PAVEMENT** FACE OF CURB 2 1/2"- 4" CLEAR 1/4" PER FT P.C.C. PAD BACK OF 2'-0" SQUARE, 4" THICK WALK **MECHANICAL** JOINT WITH THRUST BLOCK **DUCTILE IRON** 6" GATE VALVE 3 SQ. FT. BEARING MINIMUM RETAINER GLAND OR MEGA LUG

**PROFILE** 

NOTE: 3. ENCASE ALL BURIED METALLIC SURFACES WITH POLYETHYLENE WRAP PER AWWA STD. C105 (8 MIL. MIN.)

4. C900 PVC CAN BE SUBSTITUTED FOR DIP.

APPROVED BY

ush

**DATE** 4-2-92

ATTACHED RESIDENTIAL SIDEWALK FIRE HYDRANT INSTALLATION— END OF RETURN

DEPARTMENT OF PUBLIC WORKS



DRAWING NO.

